



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CARPENTER POWDER PRODUCTS
682 Mayer Street
Bridgeville, PA 15017
Amy Nagel Phone: 412-257-5109

CHEMICAL

Valid To: March 31, 2021

Certificate Number: 4164.01

In recognition of the successful completion of the A2LA evaluation process (including compliance to R223-Specific Requirements – GE Aviation S-400 Accreditation program), accreditation is granted to this laboratory to perform the following test on powder metals and metal alloys (Iron, Cobalt, Nickel, and Titanium):

Test:

Test Method(s):

Spectroscopy

Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP) (Al, As, B, Ca, Cd, Ce, Co Cr, Cu, Fe, Gd, Hf, La, Mg, Mn, Mo, Nb, Ni, P, Pt, Re, Se, Si, Sn, Ta, Ti, V, W, Y, Zn, Zr in Fe, Co, Ti and Ni alloys)

ASTM E1479, E2371, E2594;
BWI 10-21b (ICP OES)

Glow Discharge (AES) (Al, B, Co Cr, Cu, Fe, Mn, Mo, Nb, Ni P, Si, Ti, V, W in Fe and Co base alloys)

ASTM E1086;
BWI 10-42 (GD-OES)

Combustion/Fusion Analysis (LECO)

C, N, O, S in Steel, Iron, Nickel, and Cobalt Alloys

ASTM E1019

N, O in Ti alloys

ASTM E1409

C in Ti alloys

ASTM E1941

H in Ti alloys

ASTM E1447

H in Steel

BWI 10-61

Physical

Particle Size Distribution of Metal Powders by Light Scattering

ASTM B822

Dry Particle Size Distribution

ASTM B214

Determination of Flow Rate using Hall Flow Meter

ASTM B213

Apparent Density

ASTM B212

Determination of Flow Rate and Apparent Density using Carney Flow Meter

ASTM B417

Tap Density

ASTM B527



Accredited Laboratory

A2LA has accredited

CARPENTER POWDER PRODUCTS, INC.

Bridgeville, PA

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of any additional program requirements in the Chemical field. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).



Presented this 28th day of March 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4164.01
Valid to March 31, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.